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Dear VeraCAD/Zeye3D User

Thank you for purchasing VeraCAD-Software, the interactive Reducer Roll Design Software. This introduction will help you to install the VeraCAD/Zeye3D Software on your Computer with Microsoft Windows XP, Windows 2003 Server, Windows 2008 Server, Windows Vista or Windows 7 and guide you through installation in a local network with TCP/IP-protocol.

Working with our software in full version will require the installation of a hardware protection module including the necessary device driver. If you like to work with our software in a network on different client computers, it will be necessary to install a service on the server-side that can handle the client's access to the protection module.

Step 1 – Identify the protection module

Our Software can run with 2 different protection modules. CodeMeter (from WIBU Systems AG) or Hardlock (from ALADDIN Knowledge Systems). The following table will help you to identify your type of security device.

			
WIBU - CodeMeter	ALADDIN - Hardlock		

The installation process will be partly different, depending on the type of protection module. This guide describes the installation for different modules in different chapters.

Step 2 – Required files

You will need the following Files. All necessary files are available on the distribution CD or via download from ERATZ Homepage (www.ersatz.eu). Windows Operating system components are available at <http://support.microsoft.com/kb/942288/en>.

2.1 Operating System Components

WindowsInstaller-KB893803-v2-x86.exe or higher Version
Vcredist_x86.exe

2.2 Setup files for software installation

VeraCAD.msi or (Setup.exe for VeraCAD)
Zeye3D.msi or (Setup.exe or for Zeye3D)

If you download the Software from www.ersatz.eu you have to download the Zip-Files VeraCADxxx.zip and Zeye3Dxxx.zip. Unpack all archives to a temporary folder to get the necessary files.

2.3 License Tools

If you intend to install full version of our software or a new License only, you will need the files:

License.exe

December_20xx.LMF (License Master File)

2.4 Security device driver installation

The following files are not necessary for **Demo Version** installation.

Our Software can run with 2 different security devices. CodeMeter (from WIBU Systems AG) or Hardlock (from ALADDIN Knowledge Systems). The following table will help you to identify your type of security device.

2.4.1 For **CodeMeter** you will need the following files:

CodeMeterRuntime32.exe or

CodeMeterRuntime64.exe

For security device drivers more up to date versions are available from the protection module supplier homepage directly (www.wibu.de).

2.4.2 For **Hardlock** you will need the following files:

hardlock_driver_cmdline.zip

aksmon.zip

If Aladdin Hardlock is determined to run in a network you will need an additional service:

hls32_inst.zip

For security device drivers more up to date versions are available from the protection module supplier homepage directly (www.aladdin.de).

Step 3 - Installing Microsoft OS components

3.1 Preparation

VeraCAD and Zeye3D are developed with Microsoft Visual Studio, using advanced user interface and graphics. This will require some System DLL's to run on your Computer. In addition it is not possible to simply copy these files to the System32 folder of the OS, instead they must be properly installed and registered in the Registry.

On 90 % of all computers the necessary files already are available. To check, you can install VeraCAD or Zeye3D without executing Step 4 first. If the application runs properly, nothing else is to do. If you receive a message like *Ordinal number 1346 not found in DLL "coredll.dll"*, the required System Files are not present on your computer. Please follow the installation with step 3.2.

3.2 Installing Microsoft Windows Installer

It is necessary to have the latest Microsoft Windows Installer running (we require Installer 3.1 or later, Present Version is 4.5 for Windows XP). Microsoft Windows Installer is a component of the Windows operating system. Windows Installer provides a standard foundation for installing and uninstalling software. Run WindowsInstaller-KB893803-v2-x86.exe for Windows XP. Other OS may require different packages for Windows Installer, that can be received from <http://support.microsoft.com/kb/942288/en>.

3.3 Installing Microsoft redistributable libraries

Run vcredist_x86.exe. This will install the necessary DLL Files and does all registration. If the DLL-Files are already on your computer, this installer does nothing.

Step 4 - Install VeraCAD or Zeye3D

4.1 Full-Version or Demo-Version

Install VeraCAD or Zeye3D with Setup.exe. If you install the full version of our software a security device and a license key is required. Please check the option "Hardlock..." or "CodeMeter...". For Demo Version installation no hardware protection module is necessary, please check the option "Demo Version".

4.2 Automatic device driver installation for protection module

Making our software ready to work with the security device, a device driver is required. You must select the type of Software Version and Security Device manufacturer during Setup (see picture in step 1 for reference).

The necessary driver will be installed automatically by Setup (Administrator rights required). Currently our Setup serves 32Bit operating systems only. If you are using 64 Bit OS, please uncheck the device driver installation option on page “Additional License Functions” and do this step later (see step 5).

If you select the automatic installation, setup will run the installation routines provided by the hardware providers (WIBU-Systems AG or ALADDIN Knowledge Systems). Our Setup possibly may not use the latest device driver, although this will work. If you prefer to have the latest drivers running on your OS, please do not use the automatic installation and uncheck the option. Instead perform a manually installation.

For device driver installation on server-side please refer to Step 7.1.1 or 7.2.1.

4.3 Automatic creation of license key

A License Key can be created by Setup automatically. The automatic process is identical with step 8, but works in background. This option requires a security device attached to the local computer and the correct device driver installed and running. If there is no protection module attached to the computer or no device driver running, uncheck the option “**Install License Key**” and do this step later (see Step 8).

Step 5 – Device driver Installation on client computer

This step will require **Administrator Rights** on your computer.

You can install the security device driver during VeraCAD or Zeye3D setup with the option: “Install CodeMeter Runtime-Kit” or “Install Hardlock driver” or do it here manually.

Run the Setup appropriate to your operating system. To install the driver, you must be logged in as an administrator. If you do not have administrator rights, no driver will be installed.

Our Software can run with 2 different protection modules. CodeMeter (from WIBU Systems AG) or Hardlock (from ALADDIN Knowledge Systems). See picture under step 1 to identify your type of security device.

5.1 Get the latest device driver software

Use the hardware providers Setup procedure, to install the device driver suitable for your OS. First download the latest driver upgrades from the following Web-pages:

WIBU SYSTEMS AG	http://www.wibu.de/download_user.php CodeMeter Runtime-Kit (Win 32) or CodeMeter Runtime-Kit (Win 64)
ALADDIN KNOWLDGE SYSTEMS	http://www.aladdin.de/support/hardlock/downloads.aspx hldr32.zip or hardlock_driver_cmdline5_55.zip

5.2 Installing Wibu CodeMeter Runtime Kit

Use CodeMeterRuntime32.exe or CodeMeterRuntime64.exe according to your OS. Follow the instructions during the installation process.

5.3 Installing Aladdin HARDLOCK device driver

Aladdin provides 2 different installation procedures. A setup program with Graphical User Interface (GUI) is supplied with HLDREV32.exe. A command shell application is available with HLDINST.EXE.

5.3.1 Installing Aladdin HARDLOCK device driver with GUI installation

HLDREV32.exe is used to install and uninstall the Hardlock drivers on local or client computer. It serves 32 and 64 Bit operating systems. Follow the instructions during the installation process.


5.3.2 Installing Aladdin HARDLOCK device driver with command shell

HLDINST.EXE is a command shell utility that can be used to install and uninstall the Hardlock drivers. You will find this file in hardlock_driver_cmdline.zip. 32Bit and 64Bit operating systems are server with this setup. The installation utility only updates the driver files, if they contain an older driver version. To install Hardlock drivers using HLDINST.EXE, the haspds_windows.dll must be available in the same directory as the installer. Use the following command to install the drivers.

- Open a Dos Box (Command.com). Start > Execute > CMD
This will give you the option to check if the individual steps are successful or not.
- Change the directory with cd c:\temp or the place where you unpacked the archive files.
- HLDINST -remove
This command will remove any existing Hardlock driver from old versions.
Note: No application using the Hardlock driver should be running at this time. HLDINST stops the Hardlock service, and removes the registry entries belonging to the Hardlock driver.
- HLDINST -install
HLDINST takes the driver files from the image and copies the files to the appropriate system directories before launching the Hardlock service. You will receive a message “Driver successfully installed”.
- HLDINST -info
Gives you information if the driver successfully was installed and what version is up.

Step 6 – Checking correct installation of the security device driver

You can check the device driver if it is correctly installed and running as follows:

CodeMeter Wibu Systems AG	There are 3 checking methods. A new icon  is visible in the icon tray. Go to System Settings>Service. The Service “CodeMeter Runtime Server” is among the services. Type http://localhost:22350/ in your Browser Address Line. The CodeMeter Control Center is opened
Hardlock Aladdin Knowledge Systems	Open a Command Shell Window (DOS-Box) Run “hldinst.exe –info” This will display the Version of installed drivers. If no driver is running 0.00 is displayed.

Step 7 – Setting up the security device in a network

Our software is ready for use in a network. The security device can be plugged into a server computer and several clients can work with the software. For this purpose a special service is running at server-side, which can satisfy the client request for available licenses. A maximum of 2 clients can work with the software at the same time.

7.1 Configuring the network for Wibu CodeMeter protection module

Install the CodeMeterRuntime – kit on server-side and on client-side as described in step 5. On server-side it is not necessary to install the application software VeraCAD or Zeye3D.

7.1.1 Settings for Wibu CodeMeter on server-side

Type <http://localhost:22350/> in the address line of your browser. The CodeMeter Control Center is opened. Go to property page “Settings” and then to “Network”. Check the option “Start as Server” and click on “Apply”.

7.1.2 Settings for Wibu CodeMeter on client-side





Type <http://localhost:22350/> in the address line of your browser. The CodeMeter Control Center is opened. Go to property page “Settings” and then to “Network”. Click the “Add” Button below “Server search list”. Enter the computer name of the server where the CodeMeter Stick is plugged in or enter the IP-address of the server computer. The computer-name or IP address will appear in the list. You can enter more computer-names if the security device sometimes is placed at another computer. The client will search for the device at all the computers in this list, according to the order of appearance. Click on “Apply”.

7.1.3 Starting the Software on client-side

Run VeraCAD or Zeye3D. On first run a license key is requested. This key is created as described in step 8. Click the “Browse”-button and select the file created in step 8. Click “Open”. The application(s) should run as normal.

7.2 Configuring the network for Aladdin Hardlock protection module

When using Aladdin protection modules, our software can only work in a network, if special types of protection modules are used. The following table shows the devices for network. If you do not have the correct Hardlock module for network use, please contact us for providing you with another device.

Aladdin Knowledge Systems Protection modules	
These Hardlock modules are for local use only	 
These Hardlock modules are for Network use	 

Hardlock Server module and HL-Server software make it possible to use the Hardlock protection system in a network. The Hardlock module is connected to a central server computer. The client computers then access this protection module via the TCP/IP network protocol.

7.2.1 Setting up the Aladdin Hardlock Server on server-side

It is not necessary to install VeraCAD or Zeye3D application on the server computer, if this computer is not used for CAD work. On server-side only a service must run, so other client computers can access the Hardlock module. Steps:

- Run HLSW32.EXE
Use the installer for 32 Bit and 64 Bit operating systems.

The dialog will guide you through the installation.

This program will install the necessary device driver and the service to access the Hardlock module from client computers.

- You can check if the HL-Server has been installed successfully as follows: Go to My Computer > Properties > Services.
The HL-Server Service must be running and started.

7.2.2 Setting up the Aladdin Hardlock in a network on Client-side

Install VeraCAD or Zeye3D with standard setup procedure if not already installed (s. step 4). Install the Hardlock device driver as embedded installation during step 4 or manually following step 5. Run VeraCAD/Zeye3D application. At this time no local Hardlock device should be plugged into the client computer. The application will search for the Hardlock module. While it is not found on a local port, it will search the network. If found in the network, the application checks the license and works normally. It will ask for a license file, that was created during installation (step 4) or automatically in step 8. The application(s) should run as normal.

7.2.3 Troubleshooting

Two error messages may occur.

Error 1 says: “**Hardlock device not found**”.

This message occurs, if the Hardlock module is not accessible from local client computer.

This may have different reasons.

Hardlock device driver or Hardlock Service on server-side is not properly installed or not running. Go back to step 7.2.1.

If both Hardlock driver and service are properly installed and you still receive the message “Hardlock not found” proceed as follows:

On local computer you can help to find the Hardlock module more quickly by setting some environment parameters. Go to Start>Settings>System>Environment. Set the following environment parameters for the system.

Parameter	Value	Comment
HL_SEARCH	IP	This will force the client to search only the TCP/IP Network for the Hardlock module. Sample HL_SEARCH=IP
HLS_IPADDR	IP-Address or Computername	Allows specifying one or more IP addresses or names. This will optimise the search via TCP/IP protocol. Sample HLS_IPADDR=192.168.0.9 or HLS_IPADDR=servername or HLS_IPADDR=my server IP, servername

Error 2 says: “**License not valid**”.

If License is not found or not valid or expired, please execute step 8 again. If the problem cannot be solved, report the full error message to ERATZ-Engineering. We will solve the problem.

Step 8 – Creating the License Key

Using a security device does not provide the complete software protection. An individual License Key is used to license a specific product, set expiration dates or limit the number of seats. The License Key is a hexadecimal string contained in a file like VeraCAD350_xx.lic or Zeye3D200_xx.lic, where xx is your serial no. You will find your serial no. written on the protection module or your registration card. The license key can be supplied by email, download from our homepage or created by License.exe.

License.exe can run automatically during setup by checking the option “Install License Key”, but it can also be accessed manually. To create the license manually, run License.exe. The program will ask for a **License Master File** like December_20xx.lmf and will check, if it contains a license for your serial number. The serial number will be read directly from the security device. Therefore it is necessary to have the security device attached to the computer and the driver is running during this step. The Licenses are decoded and placed in the current directory. Please make sure, that the folder is writable (no CD disk).

On the first run of VeraCAD or Zeye3D the software will ask for the license key (file VeraCAD350_xx.lic or Zeye3D200_xx.lic). The license key can be copied to other computers and should be stored in a secure place.

For more information about licenses please refer to the paper “Expiration of License”.

For further questions please contact:

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